

What Is Claimed Is:

1. A data multiplexer for performing time division multiplexing of a bit stream, comprising:

an extracting means for extracting information necessary for multiplexing processing from said bit stream;

a first calculating means for calculating a time division multiplexing cycle such that a separator may separate multiplexed data by a specified method on the basis of said information extracted by said extracting means; and

a multiplexing means for performing time division multiplexing of said bit stream on the basis of a result calculated by said first calculating means.

2. A data multiplexer as claimed in claim 1, further including a second calculating means for calculating data occupancy rate of a virtual data buffer of said separator,

wherein said multiplexing means determines order in which said bit stream is multiplexed on the basis of the data occupancy rate of said virtual data buffer calculated by said second calculating means.

3. A data multiplexing method for a data multiplexer performing time division multiplexing of a

bit stream, comprising:

an extracting step for extracting information necessary for multiplexing processing from said bit stream;

a calculating step for calculating a time division multiplexing cycle such that a separator may separate multiplexed data by a specified method on the basis of said information extracted by processing at said extracting step; and

a multiplexing step for performing time division multiplexing of said bit stream on the basis of a result calculated by processing at said calculating step.

4. A program for a data multiplexer performing time division multiplexing of a bit stream, which is recorded on a recording medium readable by a computer, comprising:

an extracting step for extracting information necessary for multiplexing processing from said bit stream;

a calculating step for calculating a time division multiplexing cycle such that a separator may separate multiplexed data by a specified method on the basis of said information extracted by processing at said extracting step; and

a multiplexing step for performing time division multiplexing of said bit stream on the basis of a result calculated by processing at said calculating step.